PATENT COOPERATION TREATY

From the		,	
INTERNATIONAL SEARCHING AUTHORITY		·	REC'D 16 JUN 2005
To: JOHN H. THOMAS		•	LIMPO
JOHN H. THOMAS, P.C. 536 GRANITE AVENUE			PCT
RICHMOND, VA 23226			ITTEN OPINION OF THE
	•	INTERNATIO	ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis. 1)
		Date of mailing (day/month/year)	14 JUN 2005
Applicant's or agent's file reference	•	FOR FURTHER	ACTION
STEPHENS 3-PCT			See paragraph 2 below
International application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/US05/00954	12 January 2005 (12.01.:		28 January 2004 (28.01.2004)
International Patent Classification (IPC)	or both national classificat	ion and IPC	·
IPC(7): C10L 5/36 and US C1.: 44/530,	531, 532, 533, 534, 541,	590, 592, 606, 608	
Applicant			
STEPHENS AND COMPANY, LLC			
1. This opinion contains indications re	lating to the following item	s:	
Box No. I Basis of the	e opinion		
Box No. II Priority	Box No. II Priority		
Box No. III Non-establi	ishment of opinion with reg	gard to novelty, inve	entive step and industrial applicability
Box No. IV Lack of un	ity of invention		
	tatement under Rule 43bis. y; citations and explanation		to novelty, inventive step or industrial tatement
Box No. VI Certain doc	cuments cited		
Box No. VII Certain def	ects in the international app	plication	
Box No. VIII Certain obs	servations on the internation	nal application	
2. FURTHER ACTION			
International Preliminary Examining	ng Authority ("IPEA") ext the IPEA and the chosen I	cept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) lered.
	tere appropriate, with ame efore the expiration of 22 n	endments, before th	EA, the applicant is invited to submit to the te expiration of 3 months from the date of prity date, whichever expires later.
3. For further details, see notes to Forn	m PCT/ISA/220.		•
Name and mailing address of the ISA/ U	S	Authorized office	
Mail Stop PCT, Attn: ISA/US		Cephia D. Toome	\wedge /

Telephone No. 571-272-1700

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.	
PCT/US05/00954	

Box N	No. I Basis of this opinion	
1. With it was	h regard to the language, this opinion has been established on the basis of the international application i as filed, unless otherwise indicated under this item.	n the language in which
	This opinion has been established on the basis of a translation from the original language into the foll which is the language of a translation furnished for the purposes of international search (under Rules	owing language, 12.3 and 23.1(b)).
2. With claim	h regard to any nucleotide and/or amino acid sequence disclosed in the international application ned invention, this opinion has been established on the basis of:	and necessary to the
a.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	
b.	format of material	
	in written format	
	in computer readable form	
c.	time of filing/furnishing	
-	contained in international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
	annoted subsequently to this radiotity for the purposes of search.	
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table relatiled or furnished, the required statements that the information in the subsequent or additional copies the application as filed or does not go beyond the application as filed, as appropriate, were furnished	is identical to that in
4. Addit	itional comments:	•
	•	
	·	

Form PCT/ISA/237(Box No. I) (January 2004)

International application No. PCT/US05/00954

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 2, 4, 6, 9, 10, 12, 16-25, 29, 31-35, 37	YES
novely (1)	Claims 1, 3, 5, 7, 8, 11, 13-15, 26-28, 30, 36	NO
Inventive step (IS)	Claims 2, 4, 6, 12, 16-25, 29, 31-34, 37	YES
	Claims 1, 3, 5, 7-11, 13-15, 26-28, 30, 35, 36	NO
Industrial applicability (IA)	Claims 1-37	YES
	Claims NONE	NО

2. Citations and explanations:

Claims 1, 5, 11 and 13-15 lack novelty under PCT Article 33(2) as being anticipated by Aldrich.

Aldrich teaches heavy-duty polypropylene funnels. The funnels are conical in shape with an opening that is larger than the opposing opening. See product sheet.

Accordingly, Aldrich teaching all the limitations of the claims anticipates the claims.

Claims 1, 3, 5, 7, 8, 11, 13, 15, 26-28, 30 and 36 lack novelty under PCT Article 33(2) as being anticipated by WO 03/080770.

WO teaches a device for lighting a fire comprising a combustible cone-shaped grille made of wood and a combustible burner that fits inside of the grille. The grille contains a central hole for the head and the bottom is a larger circular hole. The sides of the grille are open. See abstracts in their entireties.

Accordingly, WO teaching all the limitations of the claims anticipates the claims.

Claims 9, 10 and 35 lack an inventive step under PCT Article 33(3) as being obvious over WO 03/080770.

WO has been discussed above. WO fails to teach the cross-sectional thickness of the grille or the weight of the grille. However, the thickness of the walls is a result effective variable that may be optimized by one's desire to control the rate of combustion of the grille. With respect to the weight of the combustible product, this to is a result effective variable that may be optimized for the best results. The skilled artisan recognizes that the heavier the grille the longer it will burn. Furthermore, limitations relating to the size of the grille are not sufficient to distinguish over the prior art given that the prior art grille performs the same function as the combustible product of the present invention.

Claims 1-37 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 2, 4, 6, 12, 14, 16-25, 29, 31-34 and 37 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed combustible product.

Form PCT/ISA/237 (Box No. V) (January 2004)

PATENT COOPERATION TREATY REC'D 16 JUN 2005 INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1) Date of mailing 14 IIIN 2005

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IPC(7): C10L 5/36 and	i US Cl.: 44/530.	531, 532, 533, 534, 541,	590, 592, 606, 608	
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CTIDITENC AND CO	MANNY IIC	•		
STEPHENS AND CO	MPANI, LLC		····	
1. This opinion conta	ins indications rel	lating to the following item	s:	
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Box No. II	Priority			
Box No. II	I Non-establi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
Box No. IV	Lack of uni	Lack of unity of invention		
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Box No. V	III Certain obs	ervations on the internation	nal application	
2. FURTHER AC	ΓΙΟΝ			
		ninary Avamination is mad	a this oninion will	be considered to be a written opinion of the
				not apply where the applicant chooses an
Authority other tha	n this one to be	the IPEA and the chosen I	PEA has notified the	E International Bureau under Rule 66.1bis(b)
that written opinion	ns of this Internat	ional Searching Authority	will not be so consid	ered.
				•
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the				
IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details,	see notes to Form	n PCT/ISA/220.		
Name and mailing addr	ess of the ISA/ U	S	Authorized officer	

Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

JOHN H. THOMAS JOHN H. THOMAS, P.C. 536 GRANITE AVENUE RICHMOND, VA 23226

Cephia D. Toomer

Telephone No. 571-272-1700

International application No.		_
PCT/US05/00954	-	

Box N	o. I Basis of this opinion
1 With	regard to the language, this opinion has been established on the basis of the international application in the language in which
	regard to the language, this opinion has been established on the basis of the international apprication in the language in which is filed, unless otherwise indicated under this item.
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International application No. PCT/US05/00954

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Claims 2, 4, 6, 9, 10, 12, 16-25, 29, 31-35, 37 YES
Claims 1, 3, 5, 7, 8, 11, 13-15, 26-28, 30, 36 NO

Inventive step (IS) Claims 2, 4, 6, 12, 16-25, 29, 31-34, 37 YES
Claims 1, 3, 5, 7-11, 13-15, 26-28, 30, 35, 36 NO

Industrial applicability (IA)

Claims 1-37

Claims NONE

YES

2. Citations and explanations:

Claims 1, 5, 11 and 13-15 lack novelty under PCT Article 33(2) as being anticipated by Aldrich.

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